



***AT-RS710TX,
AT-RS718TX,
and AT-FS708***

Ethernet and Fast Ethernet Switches

Installation Guide

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Electrical Safety and Installation Requirements

STANDARDS: This product meets the following standards

U.S. Federal Communications Commission

RADIATED ENERGY

Note: This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and , if not installed and used in accordance with this instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Note: Modifications or changes not expressly approved of by the manufacturer or the FCC, can void your right to operate this equipment.

Canadian Department of Communications

This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

WARNING: In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

RFI Emission EN55022 Class A

WARNING: This product requires shielded cables to comply with Class A emission limits. If not used with shielded cables, this product may cause radio interference in which case the user may be required to take adequate measures.

Immunity EN50082-1



**SAFETY
ELECTRICAL NOTICES**

WARNING: ELECTRIC SHOCK HAZARD

To prevent ELECTRIC shock , do not remove cover. No user-serviceable parts inside. This unit contains HAZARDOUS VOLTAGES and should only be opened by a trained and qualified technician. To avoid the possibility of ELECTRIC SHOCK disconnect electric power to the product before connecting or disconnecting the LAN cables.



LIGHTNING DANGER

DANGER: DO NOT WORK on equipment or CABLES during periods of LIGHTNING ACTIVITY.

INSTALLATION

ELECTRICAL—AUTO VOLTAGE ADJUSTMENT

This product will automatically adjust to any voltage between the ranges shown on the label.

ELECTRICAL—TYPE CLASS 1 EQUIPMENT

THIS EQUIPMENT MUST BE EARTHED. Power plug must be connected to a properly wired earth ground socket outlet. An improperly wired socket outlet could place hazardous voltages on accessible metal parts.

ELECTRICAL—CORD NOTICE

Use power cord, maximum 4.5 meters long, rated 6 amp minimum, 250V, made of HAR cordage molded IEC 320 connector on one end and on the other end a plug approved by the country of end use.



CAUTION: Air vents must not be blocked and must have free access to the room ambient air for cooling.

OPERATING TEMPERATURE

This product is designed for a maximum ambient temperature of 40 degrees C.

ALL COUNTRIES: Install product in accordance with local and National Electrical Codes.

NORMEN: Dieses Produkt erfüllt die Anforderungen der nachfolgenden Normen.

WARNUNG: Bei Verwendung zu Hause kann dieses Produkt Funkstörungen hervorrufen. In diesem Fall müßte der Anwender angemessene Gegenmaßnahmen ergreifen.

Hochfrequenzstörung

EN55022 Klasse A

WARNUNG: Dieses Produkt muß mit entstörten Kabeln versehen sein, damit es den Emissionsgrenzen der Klasse A entspricht. Wenn dieses Produkt nicht mit entstörten Kabeln verwendet wird, könnte es Funkstörungen hervorrufen; der Anwender müßte in diesem Fall angemessene Gegenmaßnahmen ergreifen.

Störsicherheit

EN50082-1



SICHERHEIT

ACHTUNG: GEFÄHRLICHE SPANNUNG

Das Gehäuse nicht öffnen. Das Gerät enthält keine vom Benutzer wartbaren Teile. Das Gerät steht unter Hochspannung und darf nur von qualifiziertem technischem Personal geöffnet werden. Vor Anschluß der LAN-Kabel, Gerät vom Netz trennen.



GEFAHR DURCH BLITZSCHLAG

GEFAHR: Keine Arbeiten am Gerät oder an den Kabeln während eines Gewitters ausführen.

INSTALLATION

AUTOMATISCHE SPANNUNGSEINSTELLUNG

Dieses Gerät stellt sich automatisch auf die auf dem Etikett aufgeführten Spannungswerte ein.

GERÄTE DER KLASSE 1

DIESE GERÄTE MÜSSEN GEEDET SEIN. Der Netzstecker darf nur mit einer vorschriftsmäßig geerdeten Steckdose verbunden werden. Ein unvorschriftsmäßiger Anschluß kann die Metallteile des Gehäuses unter gefährliche elektrische Spannungen setzen.

NETZKABEL

Das Netzkabel sollte eine maximale Länge von 4,5 Metern, einen Nennwert von mindestens 6 A und 250 V haben, aus HAR-Material hergestellt und mit einer gepreßten, IEC 320 entsprechenden, Anschlußverbindung an einem Ende, und am anderen Ende mit einem im Land des Endverbrauchers geprüften Stecker ausgestattet sein.

**VORSICHT**

Die Entlüftungsöffnungen dürfen nicht versperrt sein und müssen zum Kühlen freien Zugang zur Raumluft haben.

BETRIEBSTEMPERATUR

Dieses Produkt wurde für den Betrieb in einer Umgebungstemperatur von nicht mehr als 40° C entworfen.

ALLE LÄNDER: Installation muß örtlichen und nationalen elektrischen Vorschriften entsprechen.

STANDARDE: Dette produkt tilfredsstiller de følgende standarder.

ADVARSEL: I et hjemligt miljø kunne dette produkt forårsage radio forstyrrelse. Bliver det tilfældet, påkræves brugeren muligvis at tage tilstrækkelige foranstaltninger.

Radiofrekvens forstyrrelsesemission

EN55022 Klasse A

ADVARSEL: Der skal bruges skærmbkabler med dette produkt for at opfylde Klasse A emissionsgrænser. Hvis skærmbkabler ikke bruges, kan dette produkt muligvis forårsage radio forstyrrelse. Bliver dette tilfældet, påkræves brugeren muligvis at tage tilstrækkelige foranstaltninger.

Immunitet

EN50082-1

**SIKKERHED****ELEKTRISKE FORHOLDSREGLER**

ADVARSEL: RISIKO FOR ELEKTRISK STØD

For at forebygge ELEKTRISK stød, undlad at åbne apparatet. Der er ingen indre dele, der kan repareres af brugeren. Denne enhed indeholder LIVSFARLIGE STRØMSPÆNDINGER og bør kun åbnes af en uddannet og kvalificeret tekniker. For at undgå risiko for ELEKTRISK STØD, afbrydes den elektriske strøm til produktet, før LAN-kablerne monteres eller afmonteres.

**FARE UNDER UVEJR**

FARE: UNDLAD at arbejde på udstyr eller KABLER i perioder med LYNAKTIVITET.

INSTALLATION**ELEKTRISK—AUTOMATISK SPÆNDINGSREGULERING**

Dette apparat vil automatisk tilpasse sig enhver spænding indenfor de værdier, der er angivet på etiketten.

ELEKTRISK—KLASSE 1-UDSTYR

DETTE Udstyr kræver jordforbindelse. Stikket skal være forbundet med en korrekt installeret jordforbunden stikkontakt. En ukorrekt installeret stikkontakt kan sætte livsfarlig spænding til tilgængelige metaldele.

ELEKTRISK—EDNING

Anvend ledning af maksimum 4,5 meters længde, med en kapacitet på minimum 6 amp., 250 v, bestående af en IEC 320 connector med indstøbt HAR ledning i den ene ende og et stik i den anden ende, der er godkendt af myndighederne i brugerlandet.



ADVARSEL: Ventilationsåbninger må ikke blokeres og skal have fri adgang til den omgivende luft i rummet for afkøling.

BETJENINGSTEMPERATUR

Dette apparat er konstrueret til en omgivende temperatur på maksimum 40 grader C.

ALLE LANDE: Installation af produktet skal ske i overensstemmelse med lokal og national lovgivning for elektriske installationer.

EISEN: Dit product voldoet aan de volgende eisen.

WAARSCHUWING: Binnenshuis kan dit product radiostoring veroorzaken, in welk geval de gebruiker verplicht kan worden om gepaste maatregelen te nemen.

RFI Emissie

EN55022 Klasse A

WAARSCHUWING: Dit product vereist beschermende kabels in overeenstemming met de limieten van Klasse A emissie. Als het niet met beschermende kabels wordt gebruikt, kan dit product radiostoring veroorzaken, in welk geval de gebruiker verplicht kan worden om gepaste maatregelen te nemen.

Immunititeit

EN50082-1



VEILIGHEID

WAARSCHUWINGEN MET BETREKKING TOT ELEKTRICITEIT

WAARSCHUWING: GEVAAR VOOR ELEKTRISCHE SCHOKKEN

Verwijder het deksel niet, teneinde ELEKTRISCHE schokken te voorkomen. Binnenin bevinden zich geen onderdelen die door de gebruiker onderhouden kunnen worden. Dit toestel staat onder GEVAARLIJKE SPANNING en mag alleen worden geopend door een daartoe opgeleide en bevoegde technicus. Om het gevaar op ELEKTRISCHE SCHOKKEN te vermijden, moet u het toestel van de stroombron ontkoppelen alvorens de LAN-kabels te koppelen of ontkoppelen.



GEVAAR VOOR BLIKSEMINSLAG

GEVAAR: NIET aan toestellen of KABELS WERKEN bij BLIKSEM.

INSTALLATIE

ELEKTRISCH: AUTOMATISCHE AANPASSING VAN DE SPANNING

Dit toestel past zich automatisch aan elke spanning aan, tussen de op het label vermelde waarden.

ELEKTRISCHE TOESTELLEN VAN KLASSE 1

DIT TOESTEL MOET GEAARD WORDEN. De stekker moet aangesloten zijn op een juist geaarde contactdoos. Een onjuist geaarde contactdoos kan de metalen onderdelen waarmee de gebruiker eventueel in aanraking komt onder gevaarlijke spanning stellen.

ELEKTRISCHE SNOEREN

Gebruik een elektrisch snoer, maximum 4,5 meter lang, berekend voor ten minste 6 ampère, 250 V, uit HAR vervaardigd, met aan het ene uiteinde een gevormd IEC 320 aansluitstuk en aan het andere uiteinde een stekker die goedgekeurd is door het land waar het toestel gebruikt zal worden.



OPGELET: De ventilatiegaten mogen niet worden gesperd en moeten de omgevingslucht ongehinderd toelaten voor afkoeling.

BEDRIJFSTEMPERATUUR

De omgevingstemperatuur voor dit produkt mag niet meer bedragen dan 40 graden Celsius.

ALLE LANDEN: het toestel installeren overeenkomstig de lokale en nationale elektrische voorschriften.

NORMES: ce produit est conforme aux normes de suivantes :

MISE EN GARDE: dans un environnement domestique, ce produit peut provoquer des interférences radioélectriques. Auquel cas, l'utilisateur devra prendre les mesures adéquates.

Emission d'interférences radioélectriques

EN55022 Classe A

MISE EN GARDE : conformément aux limites d'émission de la Classe A, ce produit doit être utilisé avec des câbles blindés. Si ce produit n'est pas utilisé avec des câbles blindés, il peut émettre des interférences radioélectriques. Auquel cas, l'utilisateur devra prendre les mesures adéquates.

Immunité

EN50082 - 1

**SÉCURITÉ****INFORMATION SUR LES RISQUES ÉLECTRIQUES****AVERTISSEMENT: DANGER D'ÉLECTROCUTION**

Pour éviter toute ÉLECTROCUTION, ne pas ôter le revêtement protecteur du matériel. Ce matériel ne contient aucun élément réparable par l'utilisateur. Il comprend des TENSIONS DANGEREUSES et ne doit être ouvert que par un technicien dûment qualifié. Pour éviter tout risque d'ÉLECTROCUTION, débrancher le matériel avant de connecter ou de déconnecter les câbles LAN.

**DANGER DE Foudre**

DANGER: NE PAS MANIER le matériel ou les CÂBLES lors d'activité orageuse.

INSTALLATION**RÉGLAGE DE TENSION AUTOMATIQUE ÉLECTRIQUE**

Ce matériel peut s'ajuster automatiquement sur n'importe quelle tension comprise dans la plage indiquée sur l'étiquette.

ÉQUIPEMENT DE CLASSE 1 ÉLECTRIQUE

CE MATÉRIEL DOIT ÊTRE MIS A LA TERRE. La prise de courant doit être branchée dans une prise femelle correctement mise à la terre car des tensions dangereuses risqueraient d'atteindre les pièces métalliques accessibles à l'utilisateur.

INFORMATION SUR LE CORDON ÉLECTRIQUE

Utiliser un cordon secteur de 4.5 mètres de long maximum, calibré à 6 ampères minimum, 250V, fabriqué en câblage HAR avec connecteur IEC 32C moulé à une extrémité, et à l'autre extrémité, une prise de courant mâle répondant aux normes du pays d'utilisation.



ATTENTION: Ne pas bloquer les fentes d'aération, ceci empêcherait l'air ambiant de circuler librement pour le refroidissement.

TEMPÉRATURE DE FONCTIONNEMENT

Ce matériel est capable de tolérer une température ambiante maximum de 40 degrés Celsius.

POUR TOUS PAYS : Installer le matériel conformément aux normes électriques nationales et locales.

STANDARDIT: Tämä tuote on seuraavien standardien mukainen.

VAROITUS: Kotiolosuhteissa tämä laite voi aiheuttaa radioaaltojen häiriötä, missä tapauksessa laitteen käyttäjän on mahdollisesti ryhdyttävä tarpeellisiin toimenpiteisiin.

Radioaaltojen häirintä

EN55022 Luokka A

VAROITUS: Tämä tuote vaatii suojatut kaapelit täyttääkseen A Luokan säteilyrajoitukset. Ellei suojattuja kaapeleita käytetä, tämä laite voi aiheuttaa radioaaltohäiriötä, missä tapauksessa laitteen käyttäjän on mahdollisesti ryhdyttävä tarpeellisiin toimenpiteisiin.

Kestävyys

EN50082-1



TURVALLISUUS

SÄHKÖÖN LIITTYVIÄ HUOMAUTUKSIA

VAROITUS: SÄHKÖISKUVAARA

Estääksesi SÄHKÖISKUN alä poista kantta. Sisällä ei ole käyttäjän huollettavissa olevia osia. Tämä laite sisältää VAARALLISIA JÄNNITTEITÄ ja sen voi avata vain koulutettu ja pätevä teknikko. Välttääksesi SÄHKÖISKUN mahdollisuuden katkaise sähkövirta tuotteeseen ennen kuin liität tai irrotat paikallisverkon (LAN) kaapelit.



SALAMANISKUVAARA

HENGENVAARA: ÄLÄ TYÖSKENTELE laitteiden tai KAAPELEIDEN KANSSA SALAMOINNIN AIKANA.

ASENNUS

SÄHKÖ—AUTOMAATTINEN JÄNNITTEENSÄÄTÖ

Tämä tuote säätää automaattisesti mihin tahansa jännitteeseen ohjetarrassa annettujen arvojen välillä.

SÄHKÖ—TYYPILUOKAN 1 LAITTEET

TÄMÄ LAITE TÄYTY MAADOITTAA. Pistoke täytyy liittää kunnollisesti maadoitettuun pistorasiaan. Virheellisesti johdotettu pistorasia voi altistaa metalliosat vaarallisille jännitteille.

SÄHKÖ—JOHTOON LIITTYVÄ HUOMAUTUS

Käytä seuraavanlaista virtajohtoa: maksimipituus 4,5 metriä, minimiteho 6 ampeeria, 250 V, valmistettu HAR-johdostosta, muovattu IEC 320 -liitin toisessa päässä ja käyttömaassa hyväksytty pistoke toisessa päässä.



HUOMAUTUS: Ilmavaihtoreikiä ei pidä tukkia ja niillä täytyy olla vapaa yhteys ympäröivään huoneilmaan, jotta ilmanvaihto tapahtuisi.

KÄYTTÖLÄMPÖTILA

Tämä tuote on suunniteltu ympäröivän ilman maksimilämpötilalle 40°C.

KAIKKI MAAT: Asenna tuote paikallisten ja kansallisten sähköturvallisuusmääräysten mukaisesti.

STANDARD: Questo prodotto è conforme ai seguenti standard.

AVVERTENZA: in ambiente domestico questo prodotto potrebbe causare radio interferenza. In questo caso potrebbe richiedersi all'utente di prendere gli adeguati provvedimenti.

Emissione RFI (interferenza di radiofrequenza) EN55022 Classe A

AVVERTENZA: questo prodotto richiede cavi schermati per adeguarsi ai limiti di emissione per gli apparecchi di Classe A. Se non viene usato con cavi schermati, questo prodotto potrebbe causare radio interferenza, nel qual caso potrebbe richiedersi all'utente di prendere gli adeguati provvedimenti.

Immunità EN50082-1



NORME DI SICUREZZA

AVVERTENZE ELETTRICHE

ATTENZIONE: PERICOLO DI SCOSSE ELETTRICHE

Per evitare SCOSSE ELETTRICHE non asportare il coperchio. Le componenti interne non sono riparabili dall'utente. Questa unità ha TENSIONI PERICOLOSE e va aperta solamente da un tecnico specializzato e qualificato. Per evitare ogni possibilità di SCOSSE ELETTRICHE, interrompere l'alimentazione del dispositivo prima di collegare o staccare i cavi LAN.



PERICOLO DI FULMINI

PERICOLO: NON LAVORARE sul dispositivo o sui CAVI durante PRECIPITAZIONI TEMPORALESCHIE.

INSTALLAZIONE

ELETTRICITÀ—REGOLAZIONE AUTOMATICA DELLA TENSIONE

Questo prodotto regolerà automaticamente la tensione ad un valore compreso nella gamma indicata sull'etichetta.

ELETTRICITÀ—DISPOSITIVI DI CLASSE 1

QUESTO DISPOSITIVO DEVE AVERE LA MESSA A TERRA. La spina deve essere inserita in una presa di corrente specificamente dotata di messa a terra. Una presa non cablata in maniera corretta rischia di scaricare una tensione pericolosa su parti metalliche accessibili.

ELETTRICITÀ—AVVERTENZA SUL CAVO

Usare un cavo della lunghezza massima di metri 4,5, con capacità minima di 6 A, 250 V, di filo HAR, dotato di connettore stampato IEC 320 ad un'estremità e di spina approvata dal paese di destinazione all'altra.



ATTENZIONE: le prese d'aria non vanno ostruite e devono consentire il libero ricircolo dell'aria ambiente per il raffreddamento.

TEMPERATURA DI FUNZIONAMENTO

Questo prodotto è concepito per una temperatura ambientale massima di 40 gradi centigradi.

TUTTI I PAESI: installare il prodotto in conformità delle vigenti normative elettriche nazionali.

SIKKERHETSNORMER: Dette produktet tilfredsstiller følgende sikkerhetsnormer.

ADVARSEL: Hvis dette produktet benyttes til privat bruk, kan produktet forårsake radioforstyrrelse. Hvis dette skjer, må brukeren ta de nødvendige forholdsregler.

RFI stråling

EN55022 Klasse A

ADVARSEL: Det må benyttes isolerte kabler med dette produktet for å tilfredsstille Klasse A strålingsgrenser. Hvis ikke kan dette produktet forårsake radioforstyrrelse. Hvis dette skjer, må brukeren ta de nødvendige forholdsregler.

Immunitet

EN50082-1



SIKKERHET ELEKTRISITET

ADVARSEL: FARE FOR ELEKTRISK SJOKK

For å unngå ELEKTRISK sjokk, må dekslet ikke tas av. Det finnes ingen deler som brukeren kan reparere på innsiden. Denne enheten inneholder FARLIGE SPENNINGER, og må kun åpnes av en faglig kvalifisert tekniker. For å unngå ELEKTRISK SJOKK må den elektriske strømmen til produktet være avslått før LAN-kablene til- eller frakobles.



FARE FOR LYNNEDSLAG

FARE: ARBEID IKKE på utstyr eller KABLER i TORDENVÆR.

INSTALLASJON

ELEKTRISK—AUTO SPENNINGSTILPASNING

Dette produktet vil automatisk bli tilpasset hvilken som helst strømspenning i de områdene som vises på etiketten.

ELEKTRISK—TYPE 1- KLASSE UTSTYR

DETTE UTSTYRET MÅ JORDES. Strømkontakten må være tilkopledd en korrekt jordet kontakt. En kontakt som ikke er korrekt jordet kan føre til farlig spenning i lett tilgjengelige metalldeleer.

ELEKTRISK—MEDDELELSE OM LEDNINGER

Bruk en strømledning av maksimalt 4.5 m. i lengde, godkjent for minst av 6 amp, 250V, fremstilt av HAR ledning IEC 320 koplingsstykke i den ene enden, og i den andre enden en plugg som er blitt godkjent i brukerlandet.



FORSIKTIG: Lufterventilene må ikke blokkeres, og må ha fri tilgang til luft med romtemperatur for avkjøling.

DRIFTSTEMPERATUR

Dette produktet er konstruert for bruk i maksimum romtemperatur på 40 grader celsius.

ALLE LAND: Produktet må installeres i samsvar med de lokale og nasjonale elektriske koder.

PADRÕES: Este produto atende aos seguintes padrões.

AVISO: Num ambiente doméstico este produto pode causar interferência na radiorrecepção e, neste caso, pode ser necessário que o utente tome as medidas adequadas.

Emissão de interferência de radiofrequência EN55022 Classe A

AVISO: Este produto requer cabos protegidos a fim de obedecer aos limites de emissão da Classe A. Se não for utilizado com os cabos protegidos, este produto pode causar interferência na radiorrecepção e, neste caso, pode ser necessário que o utente tome as medidas adequadas.

Imunidade EN50082-1



SEGURANÇA

AVISOS SOBRE CARACTERÍSTICAS ELÉTRICAS

ATENÇÃO: PERIGO DE CHOQUE ELÉTRICO

Para evitar CHOQUE ELÉTRICO, não retire a tampa. Não contém peças que possam ser consertadas pelo usuário. Este aparelho contém VOLTAGENS PERIGOSAS e só deve ser aberto por um técnico qualificado e treinado. Para evitar a possibilidade de CHOQUE ELÉTRICO, desconecte o aparelho da fonte de energia elétrica antes de conectar e desconectar os cabos da LAN.



PERIGO DE CHOQUE CAUSADO POR RAIOS

PERIGO: NÃO TRABALHE no equipamento ou nos CABOS durante períodos suscetíveis a QUEDAS DE RAIOS.

INSTALAÇÃO

ELÉTRICO—AJUSTE AUTOMÁTICO DE TENSÃO

Este produto ajusta-se automaticamente a qualquer tensão que esteja dentro dos limites indicados no rótulo.

ELÉTRICO—EQUIPAMENTOS DO TIPO CLASSE 1

DEVE SER FEITA LIGAÇÃO DE FIO TERRA PARA ESTE EQUIPAMENTO. O plugue de alimentação deve ser conectado a uma tomada com adequada ligação de fio terra. Tomadas sem adequada ligação de fio terra podem transmitir tensões perigosas a peças metálicas expostas.

ELÉTRICO—AVISO SOBRE O CABO DE ALIMENTAÇÃO

Use cabo de alimentação com comprimento máximo de 4,5 metros, com uma capacidade indicada mínima de 6 amp e 250 V, fabricado de material para cabo HAR com conector moldado IEC 320 em uma extremidade e, na outra extremidade, um plugue aprovado para uso no país em questão.



CUIDADO: As aberturas de ventilação não devem ser bloqueadas e devem ter acesso livre ao ar ambiente para arrefecimento adequado do aparelho.

TEMPERATURA DE FUNCIONAMENTO

Este produto foi projetado para uma temperatura ambiente máxima de 40 graus centígrados.

TODOS OS PAÍSES: Instale o produto de acordo com as normas nacionais e locais para instalações elétricas.

ESTÁNDARES: Este producto cumple con los siguientes estándares.

ADVERTENCIA: en un entorno doméstico, este producto puede causar radiointerferencias, en cuyo caso, puede requerirse del usuario que tome las medidas que sean convenientes al respecto.

Emisión RFI

EN55022 Clase A

ADVERTENCIA: este producto requiere de cables armados para cumplir con los límites de emisión de Clase A. Si no se usa con cables armados, este producto puede causar radiointerferencias, en cuyo caso, puede requerirse del usuario que tome las medidas que sean convenientes al respecto.

Inmunidad

EN50082-1



SEGURIDAD

AVISOS ELECTRICOS

ADVERTENCIA: PELIGRO DE ELECTROCHOQUE

Para evitar un ELECTROCHOQUE, no quite la tapa. No hay ningún componente en el interior al cual puede prestar servicio el usuario. Esta unidad contiene VOLTAJES PELIGROSOS y sólo deberá abrirla un técnico entrenado y calificado. Para evitar la posibilidad de ELECTROCHOQUE desconecte la corriente eléctrica que llega al producto antes de conectar o desconectar los cables LAN.



PELIGRO DE RAYOS

PELIGRO: NO REALICE NINGUN TIPO DE TRABAJO O CONEXION en los equipos o en LOS CABLES durante TORMENTAS ELECTRICAS.

INSTALACION

ELECTRICO—AUTO-AJUSTE DE TENSION

Este producto se ajustará automáticamente a cualquier tensión entre los valores máximos y mínimos indicados en la etiqueta.

ELECTRICO—EQUIPO DEL TIPO CLASE 1

ESTE EQUIPO TIENE QUE TENER CONEXION A TIERRA. El cable tiene que conectarse a un enchufe a tierra debidamente instalado. Un enchufe que no está correctamente instalado podría ocasionar tensiones peligrosas en las partes metálicas que están expuestas.

ELECTRICO—ADVERTENCIA SOBRE EL CABLE

Use un cable eléctrico con un máximo de 4,5 metros de largo, con una capacidad mínima de 6 amperios, 250 V, hecho de cable HAR, con el conector moldeado IEC 320 en un extremo y con un enchufe que está aprobado por el país de uso final en el otro.



ATENCION: Las aberturas para ventilación no deberán bloquearse y deberán tener acceso libre al aire ambiental de la sala para su enfriamiento.

TEMPERATURA REQUERIDA PARA LA OPERACIÓN

Este producto está diseñado para una temperatura ambiental máxima de 40 grados C.

PARA TODOS LOS PAÍSES: Monte el producto de acuerdo con los Códigos Eléctricos locales y nacionales.

STANDARDER: Denna produkt uppfyller följande standarder.

WARNING: Denna produkt kan ge upphov till radiostörningar i hemmet, vilket kan tvinga användaren till att vidtaga erforderliga åtgärder.

Radiostörning

EN55022 Klass A

WARNING: Skärmkabel bör användas med denna produkt för att uppfylla kraven gällande radiostörningar enligt Klass A. Om ingen skärmkabel används med denna produkt, kan radiostörningar uppstå, vilket kan tvinga användaren till att vidtaga erforderliga åtgärder.

Immunitet

EN50082-1



SÄKERHET

TILLKÄNNAGIVANDEN BETRÄFFANDE ELEKTRICITETSRIK:

RISK FÖR ELEKTRISK STÖTFör att undvika ELEKTRISK stöt, ta ej av locket. Det finns inga delar inuti som behöver underhållas. Denna apparat är under HÖGSPÄNNING och får endast öppnas av en utbildad kvalificerad tekniker. För att undvika ELEKTRISK STÖT, koppla ifrån produktens strömanslutning innan LAN-kablarna ansluts eller kopplas ur.



FARA FÖR BLIXTNEDSLAG

FARA: ARBETA EJ på utrustningen eller kablarna vid ÅSKVÄDER.

INSTALLATION

ELEKTRISKT —AUTOMATISK SPÄNNINGSJUSTERING

Denna produkt justeras automatiskt till alla spänningar inom omfånget som indikeras på produktens märkning.

ELEKTRISKT—TYP KLAS 1 UTRUSTNING

DENNA UTRUSTNING MÅSTE VARA JORDAD. Nätkabeln måste vara ansluten till ett ordentligt jordat uttag. Ett felaktigt uttag kan göra att närliggande metalldelar utsätts för högspänning. Apparaten skall anslutas till jordat uttag, när den ansluts till ett nätverk.

ELEKTRISKT —ANMÄRKNING BETRÄFFANDE KABELN

Använd en kabel med maximum längd 4,5 meter och minimum 6 amp nominal, 250V, av HAR kabelfabrikat med ett specialutformat IEC 320-kontaktton i ena änden och i den andra en plugg som godkänts i landet där produkten används.



WARNING: Luftventilerna får ej blockeras och måste ha fri tillgång till omgivande rumsluft för avsvälvning.

DRIFTSTEMPERATUR

Denna produkt är konstruerad för rumstemperatur ej överstigande 40 grader Celsius.

ALLA LÄNDER: Installera produkten i enlighet med lokala och statliga bestämmelser för elektrisk utrustning.

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Chapter 1

Product Description

Overview

This chapter describes the features of the following unmanaged Ethernet and Fast Ethernet switches:

- ❑ AT-RS710TX
- ❑ AT-RS718TX
- ❑ AT-FS708

Each switch model is described in Table 1:

Table 1: Switch Models and Port Description

Model	Description
AT-RS710TX	Eight 10 Mbps twisted pair RJ45 ports (Ports 1 through 8) Two auto-negotiating 10/100Mbps twisted pair RJ45 ports (Ports A and B) One media-dependent interface (MDI) button on Port A One MDI button on Port 8 Total bandwidth of 280 Mbps
AT-RS718TX	Sixteen 10 Mbps twisted pair RJ45 ports (Ports 1 through 16) Two auto-negotiating 100Mbps twisted pair RJ45 ports (Ports A and B) One MDI button on Port A One MDI button on Port 16 Total bandwidth of 360 Mbps

Table 1: Switch Models and Port Description (Continued)

Model	Description
AT-FS708	Eight auto-negotiating 10/100 Mbps twisted pair RJ45 ports One MDI button on Port 8 Total bandwidth of 800 Mbps

Note

For definitions of technical terms associated with Allied Telesyn's products, refer to the Glossary on Allied Telesyn's website at www.alliedtelesyn.com.

Common Major Features

These switches come with the following common features:

- ☐ IEEE 802.3 and IEEE 802.3u compliant
- ☐ RJ45 ports
- ☐ Store and forward switching at full-wire speed (14,880 packets per second on 10 Mbps ports and 148,880 packets per second on 100 Mbps ports)
- ☐ Media-dependent interface (MDI) button on selected ports for hub or PC connection
- ☐ Support for up to 8K MAC addresses
- ☐ Internal power supply (100-120/200-240VAC)
- ☐ Desktop or rack mounting options

The three switch models described in this guide complement the other Allied Telesyn Fast Ethernet products, providing simple, cost-effective solutions for switching between 10 and 100 Mbps. Easy to install, simply plug in the power cord, turn the power switch to 1, and connect your 10 or 100Base-TX station ports.

Figure 1 and Figure 2 show the front panels of the AT-RS710TX and the AT-RS718TX, respectively. The sample rear panel in Figure 3 shows the DIP switches present in these models for setting each 10 Mbps port to either half or full duplex transmission.

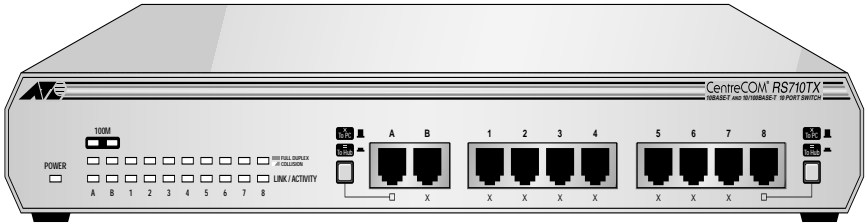


Figure 1: AT-RS710TX Front Panel

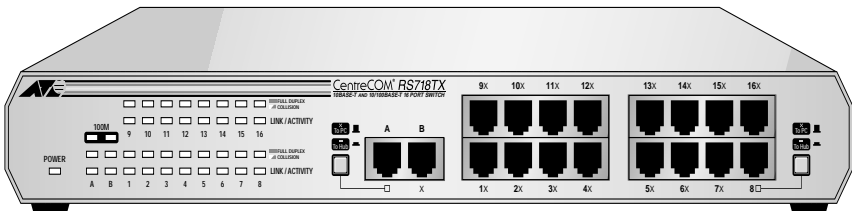


Figure 2: AT-RS718TX Front Panel

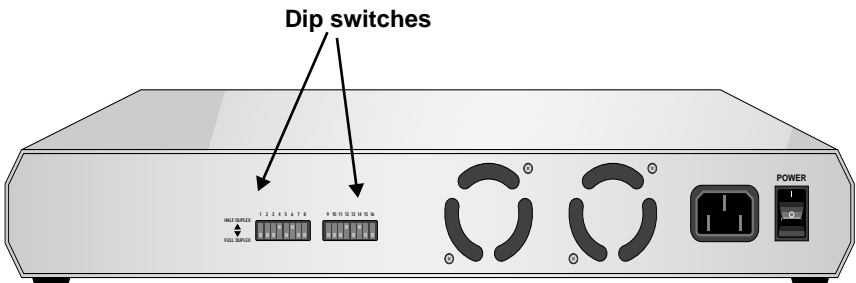


Figure 3: AT-RS718TX Rear Panel With DIP Switches

Figure 4 shows the front and rear panel of the AT-FS708. Since all ports on this model are capable of sensing full or half duplex transmission, there are no DIP switches.

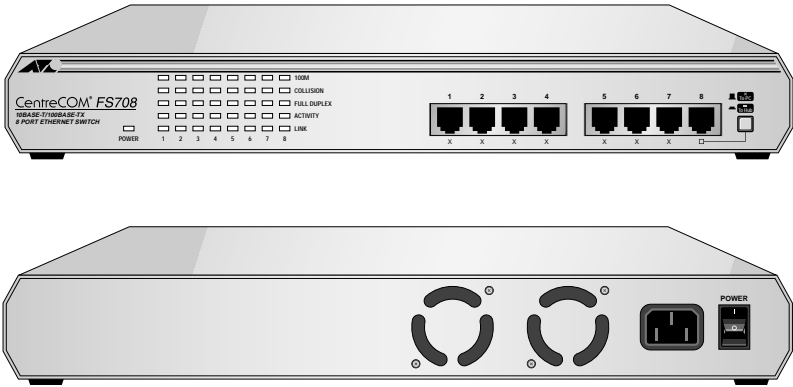


Figure 4: AT-FS708 Front and Rear Panels

Physical Description

The physical description for the switches includes:

- ☐ DIP switches on the AT-RS710TX and AT-RS718TX
- ☐ Connectors
- ☐ Media-dependent interface button
- ☐ LEDs
- ☐ Power supply

DIP Switches

The AT-RS710TX and the AT-RS718TX switches are equipped with DIP switches in the rear panel. This enables you to configure each 10 Mbps port for half or full duplex transmission.

Note

Since Ports A and B are capable of auto-negotiation, they have no associated DIP switches. The same reasoning applies to all eight ports on the AT-FS708 switch.

More details are provided in Chapter 2.

Connectors

Table 2 lists and defines the type of connectors available and their function.

Table 2: Connector Types on Switches

Connector Type	Function
Ports A and B 10/100Base-TX, RJ45 connectors	Cascade or uplink port
Ports 1 through 8 or 1 through 16, depending on model 10Base-T or 100Base-TX, depending on model; RJ45 connectors	Connecting to a high performance workstation, server, or hub

Front Panel LEDs

Figure 5 and Figure 6 illustrate front panel LEDs of the RS7 and FS7 models. These two models of switches slightly vary on the LEDs. Table 3 lists and describes these LEDs.

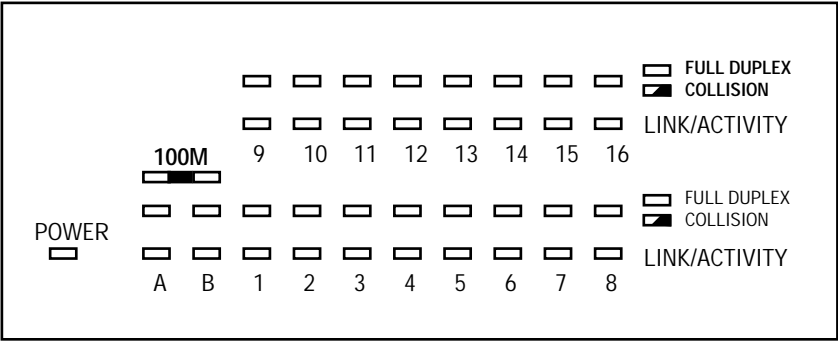


Figure 5: A Close Up of the AT-RS718TX Front Panel LEDs

Note

The AT-RS710TX does not have port numbers 9 through 16.

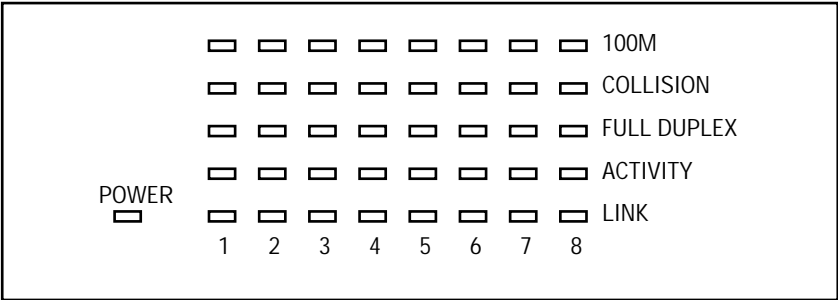


Figure 6: A Close Up of the AT-FS708 Front Panel LEDs

Table 3: LED Status

LEDs	Color	Description
100M	Green	Off means the bandwidth is 10 Mbps. On means the bandwidth is 100 Mbps. Applies to Ports A and B on the AT-RS710TX and the AT-RS718TX and to all ports on the AT-FS708.
COLLISION	Amber	Blinking indicates the port is detecting a collision. Applies to half duplex transmission only. Intermittent collisions are normal.
FULL DUPLEX	Green	On indicates full duplex transmission.
LINK/ACTIVITY	Green	On indicates a valid physical link on the port. Blinking indicates data is being transmitted. LINK and ACTIVITY are two separate LEDs on the AT-FS708.
POWER	Green	Off means there is no power to the switch. On means there is power to the switch.

More details are provided in Chapter 2.



MDI Button

The following ports associated with MDI buttons:

- ☐ Port A on the AT-RS710TX and the AT-RS718TX
- ☐ Port 8 on the AT-FS708

Specific ports associated with MDI buttons are described in Table 4. The buttons give you the flexibility of using a straight-through cable to connect to a hub or another switch, or to any DTE such as an end station or a server.

Table 4: MDI Button Positions

Position	Label	Use
In 	To PC	To connect a hub or another switch to the port
Out 	To HUB	To connect a DTE to the port

Power Supply

The switches use a 40W universal internal switching power supply with 100 to 120 VAC, or 200 to 240 VAC, 50/60 Hz input rating.

Allied Telesyn ships power cords with the units to the U.S., Continental Europe, the U.K., and Australia.

Required Voltage

The switches require input of 100 to 240 VAC. Maximum power consumption is 20W.

Auto-Negotiation

The 10/100 Mbps ports on the following models are capable of auto-negotiation:

- ☐ Ports A and B on the AT-RS710TX and the AT-RS718TX
- ☐ All 8 ports on the AT-FS708

This means these ports automatically adapt to the wire speed (10 or 100 Mbps) and duplex transmission (half or full) supported by the link without user reconfiguration.

Auto-negotiation is an optional function of the IEEE 802.3u Fast Ethernet standard that enables devices (switches) to automatically exchange information over a link about their speed and duplex abilities. This allows devices to perform automatic configurations to achieve the maximum common level of operation over a link. Auto-negotiation can provide automatic speed matching for multispeed devices at each end of a link. Multispeed Ethernet interfaces can then take advantage of the highest speed offered by the 10/100 ports on the switch.

The auto-negotiation protocol also includes automatic sensing of a port's duplex mode, allowing auto-negotiation-capable end-system devices to not only configure the speed but also change to full duplex for even higher traffic throughput. This is particularly useful in environments where NICs are being replaced or desktop workstations are moved. Each time a new device is connected to a switch's port or a device is moved from one port to another, auto-negotiation will automatically reconfigure each port without any intervention from a network administrator.

Chapter 2

Installation

Before you Proceed

Before installing the switch, make sure you read “Electrical Safety and Installation Requirements” on page iii.

Verifying Package Contents

Make sure that the package includes the following items:

- ☐ One AT-RS710TX, AT-RS718TX, or AT-FS708 switch
- ☐ One AC power cord
- ☐ Two rackmounting brackets
- ☐ Four self-adhesive rubber feet
- ☐ Four ovalhead screws with washers and eight flathead screws
- ☐ Warranty card
- ☐ This installation guide

If any of the above items is damaged or missing, contact your representative immediately.

Site Requirements

Make sure you observe the following site requirements:

- ☐ Make sure you are placing the switch in a dust-free and moisture-free environment.
- ☐ Do not block ventilation openings on the unit.
- ☐ Make sure that the switch's power is accessible and cables can be connected easily.
- ☐ Cabling should be away from sources of electrical noise such as radios, transmitters, broadband amplifiers, power lines, and fluorescent fixtures.
- ☐ Do not place objects on top of the switch.
- ☐ Use dedicated power circuits or power conditioners to supply power to the switch.

Desktop Installation

1. Attach the four self-adhesive rubber feet to the bottom of the switch, positioning them in the indentations.
2. Place the switch on a flat, level surface where power is easily accessible.
3. Attach one end of the power cord to the back of the switch and the other end to the power source.
4. Turn on the unit by pushing the power switch in the back to the **1** position. Make sure the **POWER** LED on the front panel lights green.
5. Attach the data cables and observe normal operation as indicated by the port LEDs.

Note

If you are using ports with associated MDI buttons, make sure you also refer to Table 5.

You are done with desktop installation.

Rackmount Installation

You will need a Phillips screwdriver for this installation.

Caution

Do not use power tools to perform this installation.

1. If previously attached, remove the rubber feet and all cables and power cord from the switch.
2. Attach the rackmounting brackets to each side of the switch, using the 8 small screws provided (4 on each side). See Figure 7.

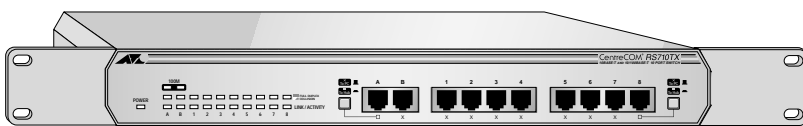


Figure 7: Switch With Rackmount Brackets

3. Attach one end of the power cord to the back of the switch and the other end to the power source.
4. Slide the switch in a standard 19-inch rack and secure the switch's brackets to the rack using the 4 large screws provided (2 on each bracket).
5. Turn on the unit by pushing the power switch in the back to the 1 position. Make sure the **POWER** LED on the front panel lights green.
6. Attach the data cables and observe normal operation as indicated by the port LEDs.

Note

If you are using ports with associated MDI buttons, make sure you also refer to Table 5.

You are done with rackmount installation.

MDI Button Setting

Specific ports on the switch are associated with MDI buttons for uplink (hub or switch) or DTE (end station or server) connectivity. If you are using these ports, use Table 5 to guide you on how to use the MDI buttons on your switch.

Table 5: Using the Media-Dependent Interface Button

If Your Switch Model and Ports Are	Use this MDI Button Position	Use This Cable	To Connect to This Device
AT-RS710TX: Port A (100 Mbps) and Port 8 10 Mbps)	In (To HUB) Out (To PC)	Straight-through	Switch or hub DTE (end station or server)
AT-RS718TX: Port A (100 Mbps) and Port 16 10 Mbps)	In (To HUB) Out (To PC)	Straight-through	Switch or hub DTE (end station or server)
AT-FS708: Port 8 (100 Mbps)	In (To HUB) Out (To PC)	Straight-through	Switch or hub DTE (end station or server)

Full/Half Duplex Setting

You can configure each 10 Mbps port on the following switch models for full or half duplex transmission:

- ❑ AT-RS718TX, ports 1-16
- ❑ AT-RS710TX, ports 1-8

The DIP switches are located in the rear panel and are set in the factory for half duplex. Each numbered DIP switch corresponds to the 10 Mbps port on the front panel. Figure 8 shows a close-up of the AT-RS710TX's rear panel as an example.

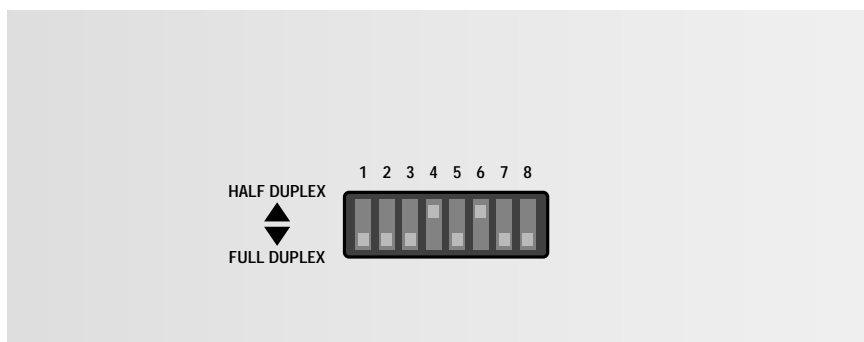


Figure 8: DIP Switches for Full or Half Duplex Transmission

To configure, push the DIP switches up position for half duplex, or push them down for full duplex.

Note

All ports on the AT-FS708 model automatically sense full or half duplex; therefore, this model does not have DIP switches.

Standalone Configuration

In a standalone configuration, the switch supports up to 10 or 18 network nodes, depending on the model. Figure 9 shows an 8-port switch connected to end stations and a server. The basic physical connection for this configuration requires connecting one of the switch's ports to the adapter card of an end station.

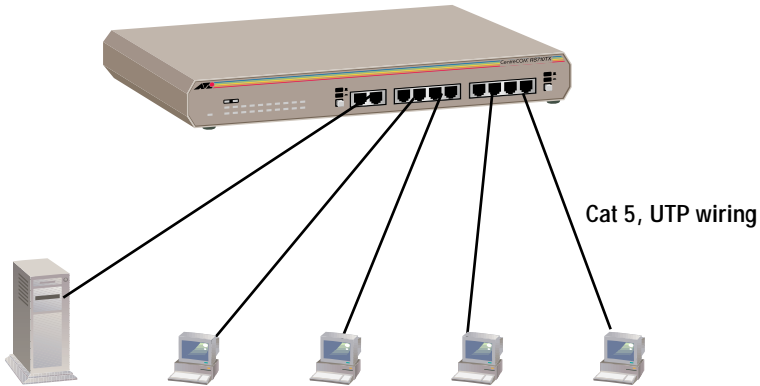


Figure 9: AT-RS710TX Connected to End Stations

Cascade Configuration

Cascading means that two switches can be connected together using any of the switch ports provided you maintain the same medium type. Two switches can be cascaded to support multiple network port connections. Cable length to the nodes must follow the 100Base-TX cabling specifications.

To cascade installed switches (the 8-port models in this example), do the following:

Note

When cascading switches, you must use the same medium type from port to port. See also Table 5 for additional information.

1. If you intend to use a port with the MDI button, set MDI button to the **To HUB** position (in).
2. Use a straight-through UTP RJ45 cable to connect the first switch to the second switch. See Figure 10.

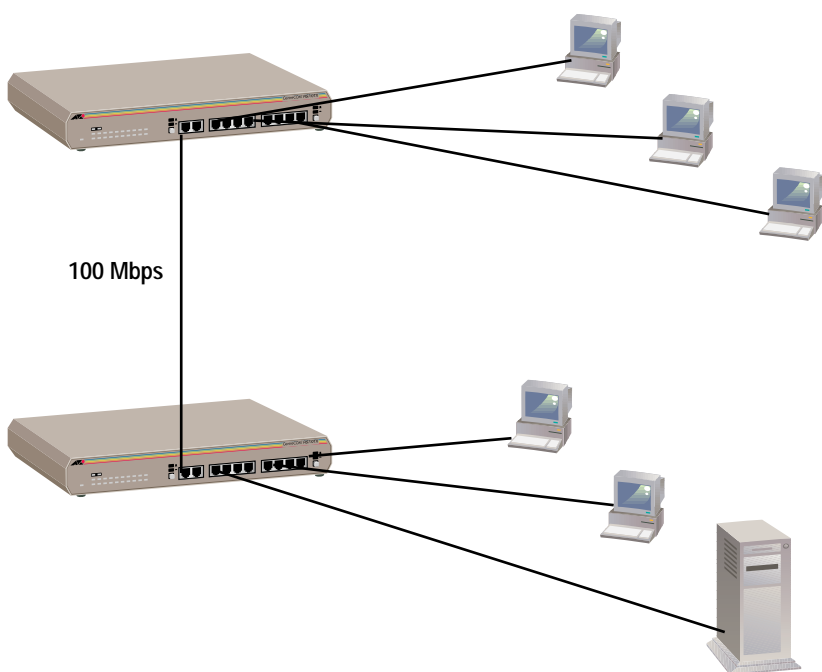


Figure 10: Cascading Switches

3. Check the front panels to make sure that the green **POWER** LED lights.

Uplink Configuration

For 100 Mbps connection to the backbone, set the following ports to the **To Hub** position:

- ☐ Port A of either the AT-RS710TX or the AT-RS718TX
- ☐ Port 8 of the AT-FS708

Figure 11 illustrates how the AT-FS708 switches can be used as an uplink to the backbone in a typical office complex using Category 5 UTP cable.

CORPORATE BACKBONE

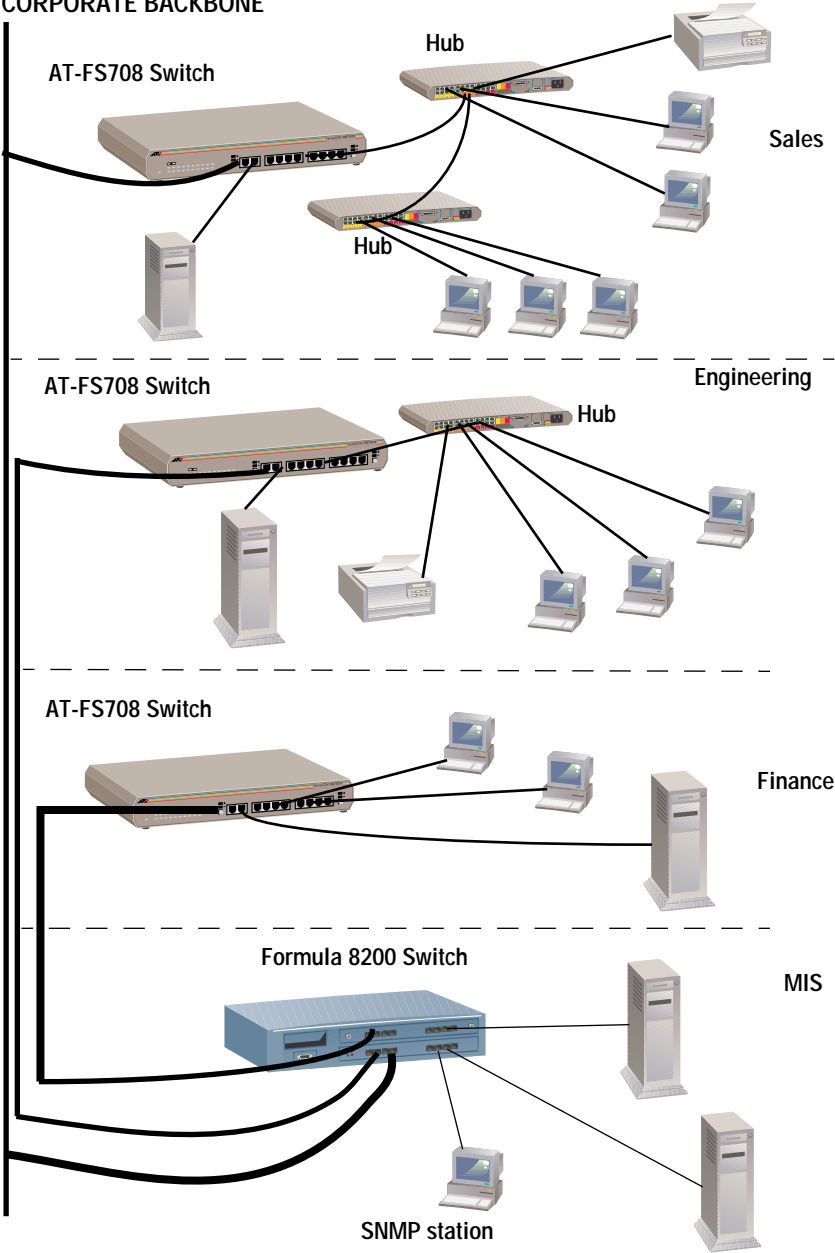


Figure 11: Switches as Uplink to the Backbone

Chapter 3

Troubleshooting

This chapter describes the procedures to test and troubleshoot the switches.

Connectivity Testing

In the following procedure, you will test each port for a valid connection and to confirm the correct operation of the network.

1. Start with Ports 1 and 2. Connect these two ports of a single switch to two nodes or workstations and turn on the switch power supply.
2. Make sure the **Link/Activity** and other LEDs of both switch ports are lit.
3. After confirming that Port 1 and Port 2 are operational, reconnect one of the nodes/workstations to another port, then repeat this communications test with the switch's remaining ports. Continue to verify the connection in each port by checking the **Link/Activity** and other activity LEDs.

Note

When testing the 100 Mbps ports with the MDI buttons connected to a workstation, set the button to the **To PC** position.

If the port is auto-negotiable, wait approximately 1-3 seconds for the process to complete after power-on or after the cables are reconnected.

If the port has a manual configuration switch, use the DIP switch to select the duplex mode. Reset the unit by pushing the power switch in the back to the **0** position, wait approximately 3 seconds, then push it back to the **1** position.

4. When cascading switches, set the MDI button to the **To Hub** position.

Problem Solving

Is the unit receiving power?

Check the POWER LED on the front of the switch. This green LED should be lit.

If the power LED is not on:

1. Check the back of the unit. Make sure the power switch is in the **1** position.
2. Check both ends of the AC power cord. Make sure the power cord is plugged into a functioning wall outlet and that it is properly inserted into the switch's power connector on the back of the unit.

Is the Link/Activity LED lit?

The Link LED on the front of the switch lights when a proper connection between the corresponding 10/100Base-TX port and the equipment connected to it is established. If this LED is not lit, check for the problems listed below and make corrections as necessary.

1. Problem 1:

The cable has been cut, damaged, or it is the wrong type of cable.

☐ Solution 1:

- Try making the connection with a different cable. Be sure you are using an undamaged cable of the correct type.

2. Problem 2:

Connected equipment is not turned on or not operating properly.

☐ Solution 2:

- Check the connected equipment (computer, another switch, etc.) and turn on the power.

3. Problem 3:

The MDI button is in the wrong setting.

❑ Solution 3:

- When using the cascade port of the switch, you should set the button to the **To HUB** position; otherwise, the switch should be in the **To PC** position.
- When cascading two switches, the unit using the cascade port should have the button set to the **To HUB** position, while the other unit should have its switch set to **To PC**.
- When ports with associated MDI buttons are not connected to other switches but are used to connect to workstations or other equipment, you should set the MDI button to the **To PC** position.

4. Problem 4:

There is data loss between the switch and one of the attached network nodes.

❑ Solution 4:

- Make sure that the distance between the switch and the connected network device is no greater than 100 meters.
- Make sure you are using Category 5 cable.

Appendix A

Switch Specifications

Physical Characteristics

Chassis Dimensions:	13 in (330 mm) (L) x 8.7 in (220 mm) (W) x 1.7 in (43.2 mm) (H)
Weight:	5.6 lbs. (2.6 kg.)
Operating temperatures:	0° to 40° C
Storage temperatures:	-20° to 70° C
Relative humidity:	10% to 90% (operating) 5% to 90% (storage)
Operating altitude:	Up to 10,000 ft (3,048 m)

Safety Agency

Standard:	IEEE 802.3 10Base-T Ethernet IEEE 802.3u, 100Base-TX Fast Ethernet
EMI/RFI:	Meets FCC Class A, EN55022 Class A
Safety:	Conforms to all standards normally supported by Allied Telesyn products, including safety standards UL 1950, CSA 22.2 No. 950, TUV and EN60950
Immunity:	Conforms to EN50082-1 Immunity Standard. CE compliant

Cabling Specifications

STP/UTP Category 5 wiring, 100 ohm impedance

100 meters between switch and network node

Electrical Specifications

Power:	Internal universal power supply with 100 to 120 VAC or 200 to 240 VAC, 50/60 Hz input.
--------	--

UTP (RJ45) Connector

Figure 12 shows an RJ45 connector. For a 100Base-TX link between switches, —any two Medium Attachment Units (MAUs)—you need a crossover cable. For a connection to a Network Interface Controller (NIC), the cable is wired straight through.

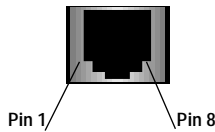


Figure 12: RJ45 Connector

Low Last Bit-to-First Delay

For long packets:	<30 μ s
For short packets:	<18 μ s

Network Specifications

Table 6 provides an overview of IEEE 802.3 and 802.3u specifications for 10Base-T and 100Base-TX network configurations using shielded twisted-pair wiring.

Table 6: IEEE 802.3 and 802.3u Network Specifications

	10Base-T	100Base-TX
Media	Shielded Twisted Pair Category 3 or 5	Shielded Twisted Pair Category 5 only
Topology	Star, Tree	Star, Tree
External Devices	Network Adapter Card, Repeater	Network Adapter Card, Repeater
Maximum Segment Length	100 meters (328 feet)	100 meters (328 feet)

100Base-TX Cable

There are various grades of voice-quality and data-quality cables available. These can appear to be similar externally, although their high-speed data transmission characteristics are radically different.

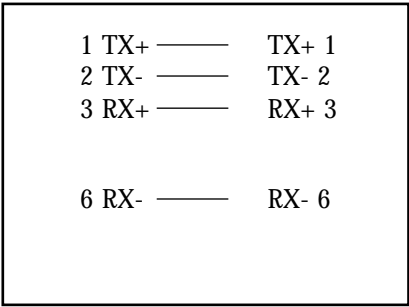
The identification problem is made worse by some suppliers selling voice-quality cables as data-quality cables.

If voice-quality cables are used in a 100Base-TX network system, data movement may be slow, collision-prone or non-existent. In addition, interface LEDs will usually indicate a valid link in such cases.

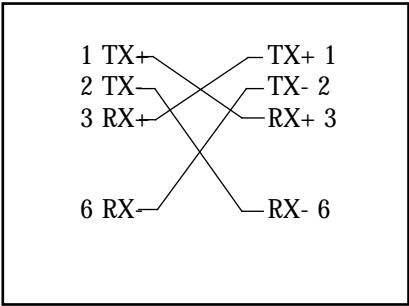
Category 5 is required cabling for use with 100Base-TX connections. Using any other category for a 100Base-TX connection may have high error rates and may not have the capacity to transmit data.

100Base-TX Connector Pinouts

Straight-through Cable



Crossover Cable



Appendix B

Technical Support Fax Order

Name _____

Company _____

Address _____

City _____ State/Province _____

Zip/Postal Code _____ Country _____

Phone _____ Fax _____

Incident Summary

Model number of Allied Telesyn product I am using _____

Network software products I am using _____

Brief summary of problem _____

Conditions (List the steps that led up to the problem.) _____

Detailed description (Use separate sheet, if necessary)

When completed, fax this sheet to the appropriate Allied Telesyn office. Fax numbers can be found on page 31.

Appendix C

AT-RS710, AT-RS718, and AT-FS708 Switches Installation Guide Feedback

Please tell us what additional information you would like to see discussed in the guide. If there are topics you would like information on that were not covered in the guide, please photocopy this page, answer the questions and fax or mail this form back to Allied Telesyn International Corp. The mailing address and fax number are at the bottom of the page. Your comments are valuable when we plan future revisions of the guide.

I found the following the most valuable _____

I would like the following more developed _____

I would find the guide more useful if _____

Please fax or mail your feedback. Fax to 1-425-481-3790. Or mail to:
Allied Telesyn Technical Communications Department
19015 North Creek Parkway
Bothell, WA 98011 USA

Appendix D

Where To Find Us

For Technical Support or Service		
Location	Phone	Fax
Americas United States, Canada, Mexico, Central America, South America	1 (800) 428-4835	1 (425) 481-3790
Asia Singapore, Taiwan, Thailand, Malaysia, Indonesia, Korea, Philippines, China, India	(+65) 3815-613	(+65) 3833-830
Australia Australia, New Zealand	(612) 416-0619	(612) 416-9764
France France, Belgium, Luxembourg, The Netherlands, Middle East, Africa	(+33) 1-60-92-15-32	(+33) 1-69-28-37-49
Germany Germany, Switzerland, Austria, Eastern Europe	(+49) 30-435-900-126	(+49) 30-435-70-650
Hong Kong	(+852) 2-529-4111	(+852) 2 529-7661
Italy Italy, Spain, Portugal, Greece, Turkey, Israel	(+39) 2-416047	(+39) 2-419282
Japan	(+81) 3-3443-5640	(+81) 3-3443-2443
United Kingdom United Kingdom, Denmark, Norway, Sweden, Finland, Iceland	(+44) 1-235-442560	(+44) 1-235-442490
Technical Bulletin Board Service	1 (425) 483-7979	
Technical Support E-mail Address	TS1@alliedtelesyn.com	
CompuServe	Go ALLIED	
World Wide Web	http://www.alliedtelesyn.com	
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